INTERNATIONALSEARCHREPORT

International application No.
PCT/JP 2004/010362

A. CLA	SSIFICATIONOFSUBJECTMATTER				
Int.Cl' H01L21/3063, H01L21/304, C25F3/16					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIEL	DS SEARCHED	national classification and IPC			
Minimum documentation searched (classification system followed by classification symbols)					
Int.Cl7 1	H01L21/3063,H01L21/304,C25F3/16	,,			
Applicat Containi	tion scarched other than minimum documentation to the Utility Model Gazette 1922-1996, Japanions 1971-2004, Japanese Registered Utiling the Utility Model 1996-2004	lity Model Gazette 1994-2004,	ility Model Japanese Gazette		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
JSTPLU:	S ,				
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C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*					
	Citation of document, with indication, where a	·	Relevant to claim No.		
X	JP 10-58236 A (EBARA CORPO	PRATION)	1-11,12-14,1		
	1998.03.03, whole document	: (Family:none)	6-17,25-31,3		
			2-34,37-38		
			,		
X	WO 2000/34995 A1 (JAPAN SCIENCE AND TECHNOLOGY		1-4,6-8,25-3		
	CORPORATION) 2000.06.15, w &EP 1139400 A1 &US 6652658	hole document	1,32-34,37-3		
	&JP 2000-167714 A	. BI	8		
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A	EP 1079003 A2 (EBARA CORPOR	ATION)			
	2001.02.28, whole document &US 6368493 B1 &JP 2001-64	700 h	1-69		
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A	EP 1170083 A2 (EBARA CORPOR	ATION)			
	2002.01.09, whole document	00.000	1-69		
	&US 2002/0020630 A1 &JP 20 &CN 1380447 A	02-292523 A			
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Further documents are listed in the continuation of Box C. See patent family annex.					
Special categories of cited documents: "T" later document published after the interestinal Silved of					
considered to be of particular relevance					
national filing date "X" document of particular relevance; the claimed invention can			claimed invention cannot		
13 01100	ent which may throw doubts on priority claim(s) or which to establish the publication date of another citation or other		taken alone		
"O" docume	reason (as specified) ent referring to an oral disclosure, use, exhibition or other	be considered to involve an inventive	cton when the design		
"P" docume	ent published prior to the international filing date but later	combination being obvious to a person	r such documents, such on skilled in the art		
than the	e priority date claimed	document member of the same pater			
Date of the actual completion of the international search		Date of mailing of the international search report			
	20.10.2004	02.11,2004			
Name and m	ailing address of the ISA/JP	Authorized officer			
Japan Patent Office		TOMOKO SUGANO	4R 9545		
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Telephone No. +81.3.3581 1:101 E	2466		

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C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	WO 2003/029531 A2(EBARA CORPORATION) 2003.04.10, whole document &JP 2004-2910 A	1-69
PX	JP 2004-216542 A(EBARA CORPORATION) 2004.08.05, whole document (Family:none)	23-24,43-44
PA	WO 2003/064734 A1(EBARA CORPORATION) 2003.08.07, whole document &JP 2004-84054 A	1-69
PA	JP 2004-209588 A(EBARA CORPORATION) 2004.07.29, whole document (Family:none)	1-69
PA	JP 2004-255479 A(EBARA CORPORATION) 2004.09.16, whole document (Family:none)	1-69
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
I. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Authority, namely:				
•				
2. Claims Nos.:				
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3. Claims Nos.:				
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows: See extra sheet				
·				
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of				
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
1				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is consequently that it is not to be inventional search report is				
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest The additional search fees were accompanied by the applicable				
The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.				
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INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/010362

The separate inventions are not so linked as to form a single general inventive concept for the following reasons:

- 1) The "special technical features" of claim 1-11,25-34 relates to the electrolytic processing with the high-pressured liquid.

 2) The "special technical features" of claim 12-18,35-36,37-38 relates to how to supply the liquid between the workpiece and at least one of the processing electrode and the feeding electrode in an electrolytic processing.
- 3) The "special technical features" of claim 19-22,39-42 relates to the keeping time of the contact between the ion exchanger which is covering the surface of the electrode and the workpices in an electrolytic processing.
- 4) The "special technical features" of claim 23-24,43-44 relates to how to control the voltage in an electrolytic processing.
 5) The "special technical features" of claim 45-69 relates to how to set the relative speed between the workpice and the processing electrode in an electrolytic processing.

Therefore, these groups are not so linked as to from a single general inventive concept, so 5 inventions are included in this application.